

**SYSTEM AND METHOD OF COLLECTING IMAGING SUBJECT
POSITIONING INFORMATION FOR X-RAY FLUX CONTROL**

ABSTRACT

5 A system and method of diagnostic imaging is provided that includes positioning
a subject in an imaging device, collecting positioning information of the subject from at
least one sensor disposed in proximity of the imaging device, and determining a relative
position of the subject within the imaging device from at least the position information.
The present invention automatically selects a proper attenuation filter configuration,
10 corrects patient centering, and corrects noise prediction errors, thereby increasing dose
efficiency and tube output.